

MATE-T580: Quiz 2

Name:

Question 1

Which `dplyr` verb is used to extract a subset of observations from a data frame:

A.

`select`

B.

`filter`

C.

`subset`

D.

`mutate`

Question 2

Which `dplyr` verb is used to sort a data frame by one or more columns:

A.

`order`

B.

`sort`

C.

`arrange`

D.

`reshape`

Question 3

What does the following line of code do:

```
select(mydataframe, -V4)
```

A.

Sorts the data frame `mydataframe` by variable `V4` in descending order

B.

Selects variable `V4` from data frame `mydataframe`

C.

Deletes variable `V4` from data frame `mydataframe`

D.

Returns a syntax error

Question 4

The first few rows of the `iris` dataset:

##	Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
## 1	5.1	3.5	1.4	0.2	setosa
## 2	4.9	3.0	1.4	0.2	setosa
## 3	4.7	3.2	1.3	0.2	setosa
## 4	4.6	3.1	1.5	0.2	setosa
## 5	5.0	3.6	1.4	0.2	setosa

Select the line of code used to print the average petal length for each iris species:

A.

```
summarize(iris, mean_pl = mean(Petal.Length))
```

B.

```
group_by(iris, mean_pl = mean(Petal.Length))
```

C.

```
summarize(group_by(iris, Species), mean_pl = mean(Petal.Length))
```

D.

```
group_by(summarize(iris, mean_pl = mean(Petal.Length)), Species)
```

Question 5

The first few rows of the `mtcars` dataset:

```
##           car mpg cyl  hp am gear  qsec  wt
## 1      Mazda RX4 21.0   6 110   1    4 16.46 2.620
## 2    Mazda RX4 Wag 21.0   6 110   1    4 17.02 2.875
## 3    Datsun 710  22.8   4  93   1    4 18.61 2.320
## 4   Hornet 4 Drive 21.4   6 110   0    3 19.44 3.215
## 5 Hornet Sportabout 18.7   8 175   0    3 17.02 3.440
```

Write a single line of code that uses `dplyr` functions to produce the result below:

```
## # A tibble: 6 x 4
## # Groups:   am [?]
##       am    cyl mean_mpg     n
##   <dbl> <dbl>   <dbl> <int>
## 1     0     4 22.90000     3
## 2     0     6 19.12500     4
## 3     0     8 15.05000    12
## 4     1     4 28.07500     8
## 5     1     6 20.56667     3
## 6     1     8 15.40000     2
```